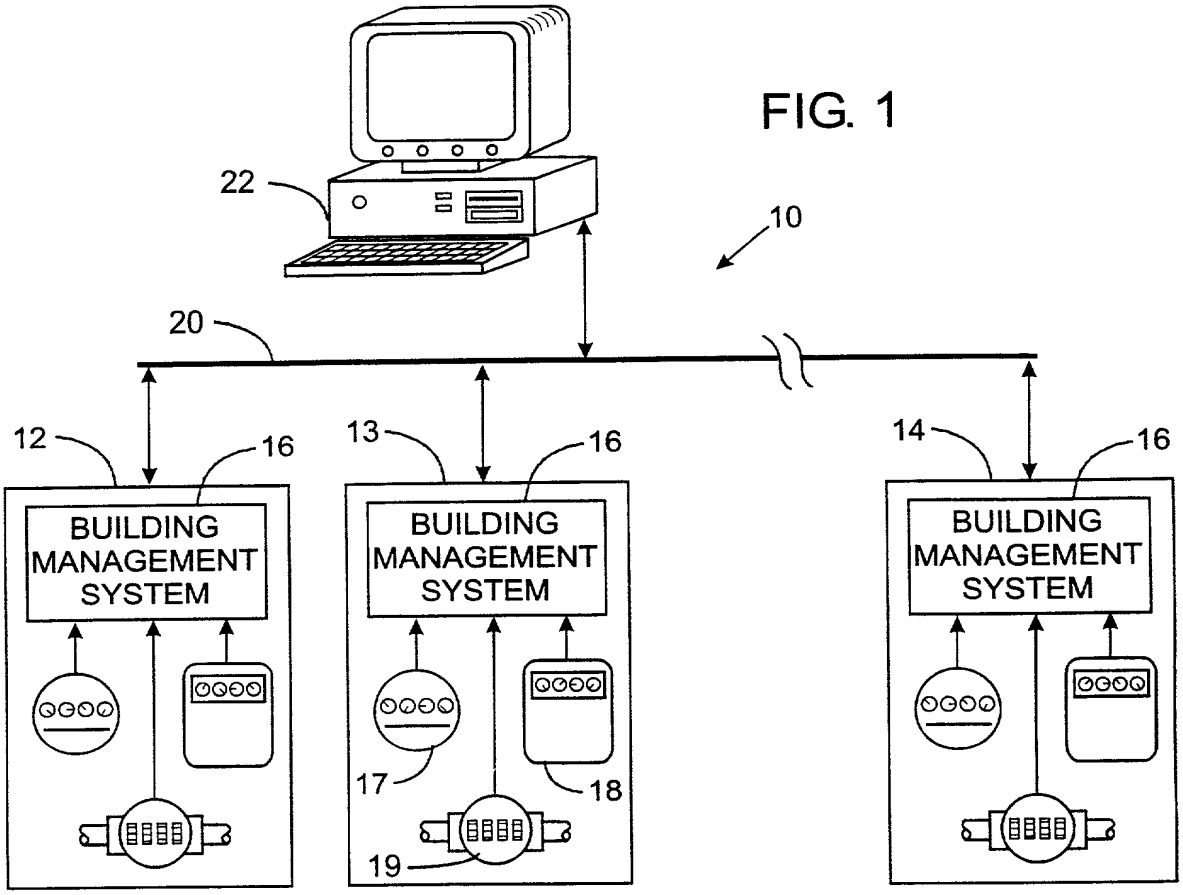
22
10
20
12
16
13
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14
16
BUILDING MANAGEMENT SYSTEM
BUILDING MANAGEMENT SYSTEM
BUILDING MANAGEMENT SYSTEM
17
18
19

FIG. 1

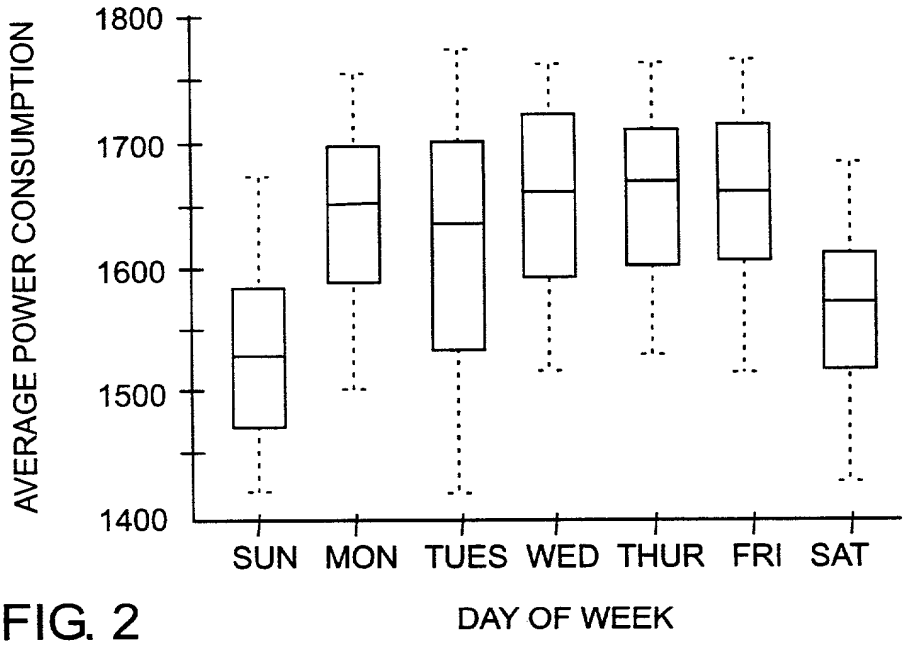

AVERAGE POWER CONSUMPTION
1800
1700
1600
1500
1400
SUN
MON
TUES
WED
THUR
FRI
SAT
DAY OF WEEK

FIG. 2

FIG. 3

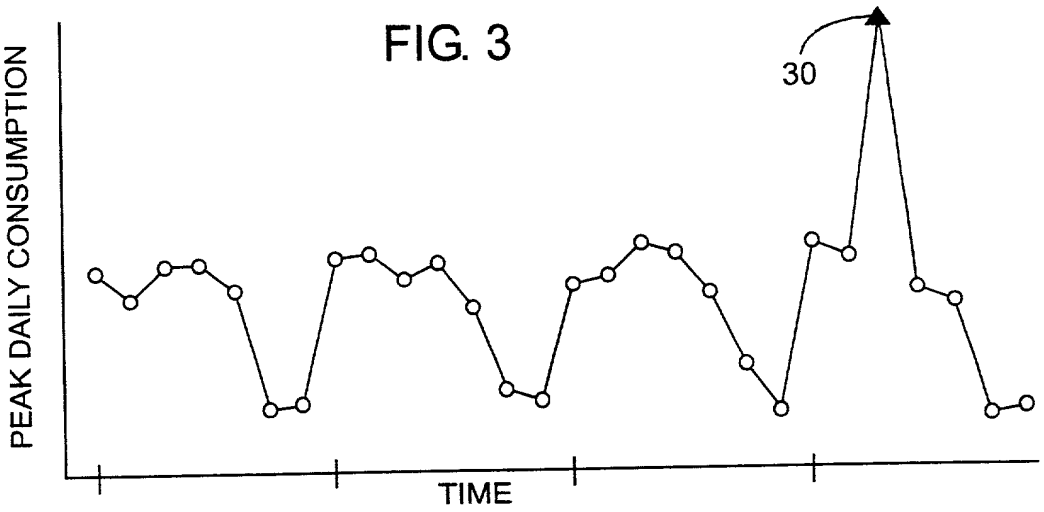
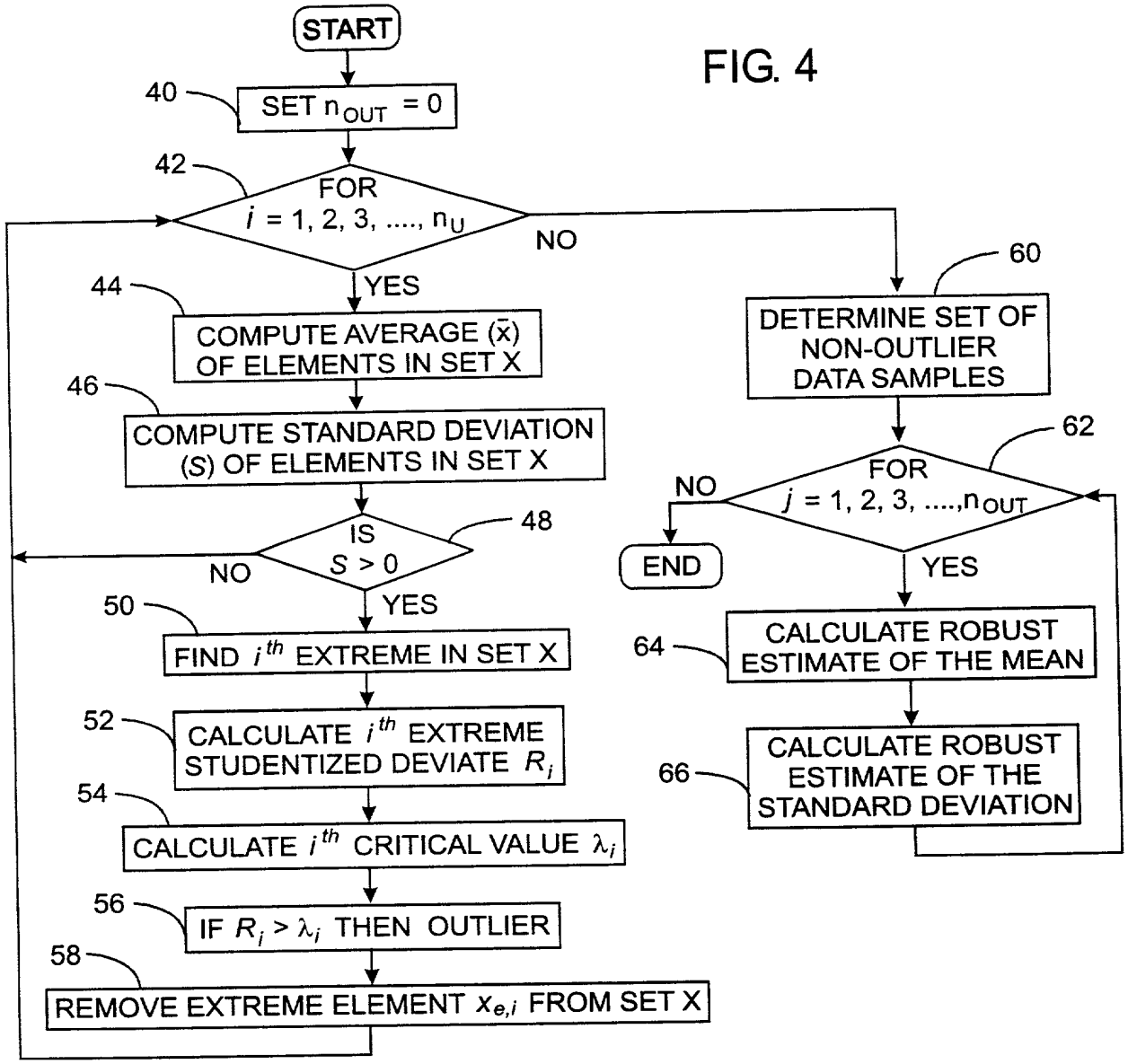

PEAK DAILY CONSUMPTION
TIME
30

FIG. 4


START
40
SET $n_{OUT} = 0$
42
FOR $i = 1, 2, 3, ..., n_U$
NO
YES
44
COMPUTE AVERAGE ($\bar{x}$) OF ELEMENTS IN SET X
46
COMPUTE STANDARD DEVIATION (S) OF ELEMENTS IN SET X
48
IS $S > 0$
NO
YES
50
FIND i^{th} EXTREME IN SET X
52
CALCULATE i^{th} EXTREME STUDENTIZED DEVIATE R_i
54
CALCULATE i^{th} CRITICAL VALUE λ_i
56
IF $R_i > \lambda_i$ THEN OUTLIER
58
REMOVE EXTREME ELEMENT $x_{e,i}$ FROM SET X
60
DETERMINE SET OF NON-OUTLIER DATA SAMPLES
62
FOR $j = 1, 2, 3, ..., n_{OUT}$
NO
END
YES
64
CALCULATE ROBUST ESTIMATE OF THE MEAN
66
CALCULATE ROBUST ESTIMATE OF THE STANDARD DEVIATION